DOCKET NO.: MSFT-2756/302351.01 PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

David B. Lomet, Roger S. Barga Confirmation No.: Not Yet Assigned

Application No.: Herewith Group Art Unit: Not Yet Assigned

Filing Date: Herewith Examiner: Not Yet Assigned

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EXPRESS MAIL LABEL NO: EL970385965US DATE OF DEPOSIT: November 24, 2003

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or

before the mailing date of a first Office Action after the filing of request for					
continued examination under § 1.114, no additional fee is required.					
In accordance with § 1.129(a), this Information Disclosure Statement is being					
filed in connection with _ the first or _ second After Final Submission,					
therefore:					
☐ Certif	ication in Accordance with § 1.97(e) is attached; or				
The fee of \$180.00 as set forth in § 1.17(p) is attached.					
In accordance with § 1.97(c), this Information Disclosure Statement is being					
filed after the period set forth in § 1.97(b) above but before the mailing date of					
either a Final Action under § 1.113 or a Notice of Allowance under § 1.311, or					
before an action that otherwise closes prosecution in the application, therefore:					
	Certification in Accordance with § 1.97(e) is attached;				
	or				
	The fee of \$180.00 as set forth in § 1.17(p) is attached.				
In accordance with § 1.97(d), this Information Disclosure Statement is being					
filed after the mailing date of either a Final Action under § 1.113 or a Notice					
of Allowance under § 1.311 but before, or simultaneously with, the payment					
of the Issue Fee, therefore included are: Certification in Accordance with §					
1.97(e); and the submission fee of \$\frac{\$180.00}{}\] as set forth in \§ 1.17(p).					

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	enclosed herewith.							
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	Copies of references listed on the attached Form PTO 1449 are not require							
	be submitted pursuant to the June 30, 2003 recent revisions to 37 CFR 1.98(a)(2)(i).  EXCEPT THAT:							
		In view of the voluminous nature of references [list as appropriate],						
		and the likelihood that these references are available to the Examiner,						
		copies are not enclosed herewith.						
	In accordance with § 1.98(d), copies of the following references liste							
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	they were previously cited by or submitted to the U.S. Patent are Trademark Office in patent application(s) for which a claim for priorisunder 35 U.S.C.§ 120 have been made in the instant application:							
		Copies of references [list as appropriate] listed on the						
		attached Form PTO-1449 were previously cited by or submitted						
		to the Patent and Trademark Office in prior Application No.						
•		, filed .						

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date: November 24, 2003

Susan C. Murphy

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Form PTC	0-1449 Modified	Docket No. MSFT-2756/302351.01	Application No. Herewith				
Cited	nt and Publications by Applicant sheets if necessary)	Applicant David B. Lomet, Roger S. Barga					
1 -	ment of Commerce Trademark Office	Filing Date Herewith	Group Not Yet Assigned				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
3	Barga, R. et al., "Persistent Applications via Automatic Recovery", IDEAS Conference, July 2003, 10 pages  Barga, R.S., "Phoenix Application Recovery Project", Bulletin of the IEEE Computer Society Technical Committee on Data Engineering, December 2002, 1-6  Barga, R. et al., "Phoenix Project: Fault-Tolerant Applications", SIGMOD Record 31, June 2002, 94-100						
4	Barga, R. et al., "Recovery Guarantees for General Multi-Tier Applications", ICDE Conference, San Jose, Ca, March 2002, 543-554						
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6	Barga, R. et al., "Phoenix: Making Applications Robust", SIGMOD Conference, Philadelphia, Pa., June 1999, 562-564						
7	Lomet, D.B., "High Speed On-Line Backup when using Logical Log Operations", SIGMOD Conference Dallas, TX, May 2000, 7 pages						
8	Lomet, D. et al., "A Theory of Redo Recovery", SIGMOD Conference, San Diego, Ca., June 2003, 10 pages						
9	Lomet, D. et al., "Efficient Transparent Application Recovery In Client-Server Information Systems", SIGMOD Conference, Seattle Wa., June 1998, 1-23						
EXAMINER		DATE CON	SIDERED				

Form PTO-1449 Modified			Docket No.	56/302351.01	Application No. Herewith		
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)			Applicant David B. Lomet, Roger S. Barga				
U.S. Department of Commerce Patent and Trademark Office			Filing Date Herewith	,	Group Not Yet Assigned		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	10	Lomet, D., "Application Recovery: Advances Toward an Elusive Goal", HPTS Workshop, Asilomer, Ca., September 1997, 1-4					
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	12	Lomet, D.B., "MLR: A Recovery Method for Multi-level Systems", SIGMOD Conference, June 1992, 185-194					
	13	Lomet, D. et al., "Redo Recovery after System Crashes", <i>Proceedings of the 21<sup>st</sup></i> VLDB Conference, <b>September 1995</b> , 457-468					
	14	1999, 73-84					
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EXAMINER				DATE CONSIL	DERED		